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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/633,194	07/31/2003	Ping Gao	01259/2/US	3162
26648 7590 03/14/2007 PHARMACIA CORPORATION GLOBAL PATENT DEPARTMENT POST OFFICE BOX 1027 ST. LOUIS, MO 63006			EXAMINER LAO, MARIALOUISA	
			ART UNIT 1621	PAPER NUMBER

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	03/14/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/633,194

Applicant(s)

GAO, PING

Examiner

MLouisa Lao, Ph.D.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on 22 December 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 19-23 and 30-33 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 19-23 and 30-33 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 12/11/2003.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

Response to Argument

1. The applicants' arguments and amendments to the claims in the reply dated December 22, 2006 have been considered., as follows:

- a) the rejection of claims 22 and 23 under 35 USC§112 2nd¶ is withdrawn.
- b) the rejection of claims 19, 22-24, 30-32 under 35 USC§102(b) is withdrawn.
- c) the rejection of claims 20, 21, 25-29 and 33 under 35 USC§102(b) is withdrawn.
- d) the rejection of claim 31 under 35 USC§102(b) is withdrawn.
- e) the amendments to claims 19, 22 and 23 and the cancellation of claims 24-29 are acknowledged.

2. It is further noted that the applicants elected the species, sodium metabisulfite, in the reply dated 9/27/2006, whereupon claims 19-33 were stated to read on the elected species.

3. However, in view of an updated search, **new grounds of rejection** of the claims, as amended, are presented as follows

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

5. **Claim 19 is rejected** under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In line 3 of claim 19, applicants recite "*and/or*" whereupon the ensuing phraseology would be (gelatin cross-linking and pellicle formation) in contrast to (gelatin cross-

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linking or pellicle formation) failing to clearly state the metes and bounds of the claim, as recited.

6. **Claim 22 is rejected** under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 22 recites the limitation "*the fill material comprises an amine agent...*" in line 1 continuing to line 2. There is insufficient antecedent basis for this limitation in the claim. It is unclear if the amine agent is the fill material since independent claim 19 recites *a fill material comprises celecoxib*.

7. **Claim 23 is rejected** under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 23 recites the limitation "*the fill material comprises a pharmaceutically acceptable sulfite compound*" in line 1 continuing to line 2. There is insufficient antecedent basis for this limitation in the claim. It is unclear if the sulfite compound is the fill material since independent claim 19 recites *a fill material comprises celecoxib*.

8. **Claim 30 is rejected** under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is unclear what the applicants are reciting as "*other substances*" in line 4, as this phrase does not find support in the instant specification. The artisan of ordinary skill at the time of the invention will not be able to ascertain the metes and bounds of the invention, as claimed.

9. **Claim 31 is rejected** under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as

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the invention. In lines 3 and 6, the applicants recite “*first in vitro*” and “*second in vitro*” assays, respectively. It is unclear what the requisite steps and components are of the individual assays.

10. **Claim 31 is rejected** under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In line 7 of claim 37, the applicants recite “*substantially identical*”. This phrase finds no support in the instant specification, the absence of which precludes the artisan of ordinary skill in the art at the time of the invention to ascertain the metes and bounds of the invention, as claimed.

11. **Claim 31 is rejected** under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In line 10 of claim 31, the applicants recite the phrase “*a reasonably short time*”, which lacks support in the specification. The absence of this definition precludes the artisan of ordinary skill in the art at the time of the invention to ascertain the range of time to practice the invention, as claimed.

Double Patenting

12. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the “right to exclude” granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting

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ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

13. **Claims 19-23 and 30-33 are provisionally rejected** on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 3 10, 11, 21-24 and 28-29 of copending Application No. US2004/0105884, US'884 (SN10/632737).

14. The instant claims are drawn to a pharmaceutical dosage form comprising a fill material sealed in capsule shells, wherein the capsule shells comprise a sulfite compound, and wherein said sulfite compound is present in an amount sufficient to inhibit gelatin cross-linking and/or pellicle formation in the capsule shells and the fill material comprises celecoxib.

15. US'884 discloses a pharmaceutical dosage form comprising a fill material sealed in capsule shells wherein the fill material comprises a drug, which is celecoxib and at least one sulfite compound, wherein the capsule shells comprise gelatin and the sulfite compound is in an amount sufficient to inhibit gelatin cross-linking and/or pellicle formation in the capsule shells.

16. The instant claims anticipate US'884, since the instant claims recite the fill material is celecoxib, a pharmaceutical drug, which is the drug in US'884 and all the parameters of the gelatin capsule and constituents thereto.

This is a provisional obviousness-type double patenting rejection.

Provisional Rejection Under 102(e)/103

17. Applicant has provided evidence in this file showing that the invention was owned by, or subject to an obligation of assignment to, the same entity as US2004/0105884 at the time this

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invention was made, or was subject to a joint research agreement at the time this invention was made. However, reference US2004/0105884 additionally qualifies as prior art under another subsection of 35 U.S.C. 102, and therefore, is not disqualified as prior art under 35 U.S.C. 103(c).

Applicant may overcome the applied art either by a showing under 37 CFR 1.132 that the invention disclosed therein was derived from the invention of this application, and is therefore, not the invention "by another," or by antedating the applied art under 37 CFR 1.131.

18. **Claims 19-23 and 30-33 are provisionally rejected** under 35 U.S.C. 103(a) as being obvious over copending Application No. US2004/0105884, which has a common inventor with the instant application. Based upon the earlier effective U.S. filing date of the copending application, it would constitute prior art under 35 U.S.C. 102(e) if published or patented. This provisional rejection under 35 U.S.C. 103(a) is based upon a presumption of future publication or patenting of the conflicting application. The instant claims are drawn to the species that anticipate the genus disclosed in US2004/0105884.

This provisional rejection might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the copending application was derived from the inventor of this application and is thus not the invention "by another," or by a showing of a date of invention for the instant application prior to the effective U.S. filing date of the copending application under 37 CFR 1.131. This rejection might also be overcome by showing that the copending application is disqualified under 35 U.S.C. 103(c) as prior art in a rejection under 35 U.S.C. 103(a). See MPEP § 706.02(l)(1) and § 706.02(l)(2).

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19. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

20. **Claims 19-23 and 30-33 are provisionally rejected** on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 4, 6-8, 14, 25-28 and 32-33 of copending Application No. US2004/01015883, US '883 (SN10/633390).

21. The instant claims are drawn to a pharmaceutical dosage form comprising a fill material sealed in capsule shells, wherein the capsule shells comprise a sulfite compound, and wherein said sulfite compound is present in an amount sufficient to inhibit gelatin cross-linking and/or pellicle formation in the capsule shells and the fill material comprises celecoxib.

22. US'883 teaches a pharmaceutical dosage form comprising a fill material sealed in capsule shells wherein the fill material comprises a drug, which is celecoxib, an amine agent and at least one sulfite compound, wherein the capsule shells comprise gelatin and the amine agent is in an amount sufficient to inhibit gelatin cross-linking and/or pellicle formation in the capsule shells.

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23. The instant claims anticipate US'883, since the instant claims recite the fill material is celecoxib, a pharmaceutical drug, which is the drug in US'883 and all the parameters, inclusive of the sulfite and amine agents, of the gelatin capsule and constituents thereto.

This is a provisional obviousness-type double patenting rejection.

Provisional Rejection Under 102(e)/103

24. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

25. Applicant has provided evidence in this file showing that the invention was owned by, or subject to an obligation of assignment to, the same entity as US2004/01015883 at the time this invention was made, or was subject to a joint research agreement at the time this invention was made. However, reference US2004/01015883 additionally qualifies as prior art under another subsection of 35 U.S.C. 102, and therefore, is not disqualified as prior art under 35 U.S.C. 103(c).

Applicant may overcome the applied art either by a showing under 37 CFR 1.132 that the invention disclosed therein was derived from the invention of this application; and is therefore, not the invention "by another," or by antedating the applied art under 37 CFR 1.131.

26. **Claims 19-23 and 30-33 are provisionally rejected** under 35 U.S.C. 103(a) as being obvious over copending Application No. US2004/01015883 (SN10/633390), which has a common assignee with the instant application. Based upon the earlier effective U.S. filing date

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of the copending application, it would constitute prior art under 35 U.S.C. 102(e) if published or patented. This provisional rejection under 35 U.S.C. 103(a) is based upon a presumption of future publication or patenting of the conflicting application. The instant claims are a species that read on the genus of US2004/01015883.

This provisional rejection might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the copending application was derived from the inventor of this application and is thus not the invention "by another," or by a showing of a date of invention for the instant application prior to the effective U.S. filing date of the copending application under 37 CFR 1.131. This rejection might also be overcome by showing that the copending application is disqualified under 35 U.S.C. 103(c) as prior art in a rejection under 35 U.S.C. 103(a). See MPEP § 706.02(l)(1) and § 706.02(l)(2).

Double Patenting

27. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

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Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

28. **Claims 19-23 and 30-33 provisionally rejected** on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 19-21, 23 and 26-31 of copending Application No. US2004/0131670, US`670 (SN10/633102).

29. The instant claims are drawn to a pharmaceutical dosage form comprising a fill material sealed in capsule shells, wherein the capsule shells comprise a sulfite compound, and wherein said sulfite compound is present in an amount sufficient to inhibit gelatin cross-linking and/or pellicle formation in the capsule shells and the fill material comprises celecoxib.

30. US`670 discloses a pharmaceutical dosage form comprising a fill material sealed in capsule shells wherein the shell capsules comprise gelatin and an amine agent and the amine agent is in an amount sufficient to inhibit gelatin cross-linking and/or pellicle formation in the capsule shells; and wherein the fill material comprises a drug, which is celecoxib and at least one sulfite compound in an effective amount with the amine agent in the capsule.

31. The instant claims anticipate US`670, since the instant claims recite the fill material is celecoxib, a pharmaceutical drug, which is the drug in US`670 and all the parameters of the gelatin capsule, inclusive of the sulfite and amine agent, and constituents thereto.

This is a provisional obviousness-type double patenting rejection.

Claim Rejections - 35 USC § 103

32. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

33. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459

(1966), that are applied for establishing a background for determining obviousness under 35

U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

34. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

35. **Claims 19-20, 22-23 and 30-32 are rejected** under 35 U.S.C. 103(a) as being unpatentable over Satoshi et al. (EP0695544, EP '544) and further in view of Berthel et al. (US2003/0219477, US'477).

36. The instant claims are drawn to a pharmaceutical dosage form comprising a fill material sealed in capsule shells, wherein the capsule shells comprise a sulfite compound, and wherein said sulfite compound is present in an amount sufficient to inhibit gelatin cross-linking and/or pellicle formation in the capsule shells and the fill material comprises celecoxib.

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37. EP `544 discloses gelatin capsules that are resistant to denaturation with the use of free radical scavengers, which are exemplified *inter alia* by pharmaceutically acceptable sulfites and hydrogen sulfites. See page 2 lines 10-17, page 3 under Example 1 and claim 4.

EP `544 teaches that the "...generation of aldehyde is suppressed and as a result the formulation of a thin film on the gelatin capsules and insolubilization are inhibited even though PEG and the like are used as fillers." See page 3 lines 37- 43.

EP`544 does not disclose the fill material is the drug celecoxib.

38. However, US`477 discloses in page 9 claims 6, 10, 13 and 16 a pharmaceutical soft gelatin capsule in unit dosage form with a filling comprising a drug, which is *inter alia*, celecoxib.

39. It would have been obvious to a person of ordinary skill in the art at the time of the invention was made to substitute the drug celecoxib into the fill material of EP`544 since US`477 discloses the same type of gelatin capsule as that used in EP`544.

40. One having ordinary skill in the art would have been motivated to substitute the drug celecoxib into the fill material of EP`544 since this drug was disclosed by US`477 as a suitable fill material in a gelatin capsule and the artisan would have expected a reasonable degree of success with this substitution.

41. **Claims 19-20, 22-23 and 30-33 are rejected** under 35 U.S.C. 103(a) as being unpatentable over Satoshi et al. (EP0695544, EP `544) and further in view of Berthel et al. (US2003/0219477, US`477) and Black et al. (USPatent 5,733,909, US `909).

42. The instant claims are drawn to a pharmaceutical dosage form comprising a fill material sealed in capsule shells, wherein the capsule shells comprise a sulfite compound, and wherein

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said sulfite compound is present in an amount sufficient to inhibit gelatin cross-linking and/or pellicle formation in the capsule shells and the fill material comprises celecoxib.

43. EP `544 art discloses gelatin capsules that are resistant to denaturation with the use of free radical scavengers, which are exemplified *inter alia* by pharmaceutically acceptable sulfites and hydrogen sulfites. See page 2 lines 10-17, page 3 under Example 1 and claim 4.

Further, the EP `544 art teaches that the "...generation of aldehyde is suppressed and as a result the formulation of a thin film on the gelatin capsules and insolubilization are inhibited even though PEG and the like are used as fillers." See page 3 lines 37- 43.

44. EP`544 does not disclose the fill material is the drug celecoxib.

45. However, US`477 discloses in page 9 claims 6, 10, 13 and 16 a pharmaceutical soft gelatin capsule in unit dosage form with a filling comprising a drug, which is *inter alia*, celecoxib.

46. Neither EP`544 nor US`477 disclose the amine compound in the soft gelatin capsule.

47. However, US`909 teaches a pharmaceutical composition for treating COX-2 medicated diseases comprising a particular drug of low water solubility, the selective COX-2 inhibitor having the formula (I) therein, the particular solvents such as polyethylene glycol (PEG), water and organic amine such as tertiary amine or diethanolamine. See abstract, column 1 lines 45-67; see column 8 lines 10-15. Further, the USPatent `909 teaches that the pharmaceutical composition therein is in the form of a capsule or an imbibable liquid to be administered orally. See column 9 line 66 to column 10 lines 1-67.

48. US`909 discloses in column 8 lines 1-55 the various types of amine compounds that are present with COx-inhibitory drugs. While in column 12 lines 25-28, US`909 discloses that the

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dosage unit forms generally contain 1mg to 500mg of an active ingredient (i.e. COx-inhibitory drugs).

49. It would have been obvious for the artisan skilled in the art at the time of the invention, to utilize an amine compound in the gelatin capsule of EP'544 utilizing the fill material of US'477 since the pharmaceutical composition of US'909 can also be used as a fill material in gelatin capsules, which are equivalent to the gelatin capsules of EP'844 and US'477.

50. One having ordinary skill in the art would have been motivated to incorporate the amine compound disclosed in US'909 since the amine compound with a drug in a pharmaceutical composition as that disclosed by US'477 and EP'544, the nature of which are similar and drawn to equivalent therapeutic drugs, like celecoxib, in a gelatin capsule shell, incorporating at least a sulfite compound which is a cross-linking and/or pellicle inhibitor, will allow the artisan to arrive at a reasonable expectation of success.

51. The methodologies involving the dissolution assay recited in claim 31 to obtain the dissolution characteristics of the pharmaceutical dosage form, as recited are well known for testing gelatin capsules and within the purview of the artisan. Such methodologies are discussed in scientific papers like "Collaborative Development of Two-Tier Dissolution Testing for Gelatin Capsules and Gelatin-Coated Tablets using Enzyme-Containing Media, Stimuli to the Revision Process; *Pharmacopeial Forum*, Vol. 25, No. 5, pp 7045 -7050, Sept.-Oct. 1988 and Digenis et al.," Crosslinking of Gelatin Capsules and Its Relevance to Their In Vitro - In Vivo Performance," *J. Pharm. Sci.* 83 (7), 915-921 (1994).

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52. These aforementioned papers disclose the dissolution test of gelatin-based capsules, which is also further identified in said papers as the USP's dissolution test. See page 44 column 2 paragraph 2 of the *Pharmacopeial Forum* reference.

53. One having ordinary skill in the art would have been motivated to incorporate the dissolution assay in the teachings of US'909, US'477 and EP'544, since these disclosures are drawn to gelatin capsule shell which will *inherently exhibit* a dissolution characteristic as that of instant claim 31 with a reasonable expectation of success.

54. As to the recitation of **claim 21** of self-emulsification of the fill material upon contact with gastric fluid, the examiner takes the position that this characteristic of self-emulsification is known by a person of ordinary skill in the art at the time of the invention that pharmaceutical compositions used as fill materials for gelatin capsules, composed of oils, surfactants and excipients, as recited in the instant application *would inherently* behave as a o/w (oil-in-water) emulsions upon contact with fluids of the GIT (gastric-intestinal tract). It is well settled that a prior art reference may anticipate when the claim limitations not expressly found in that reference are nonetheless inherent in it. "Under the principle of inherency, if the prior art necessarily functions in accordance with, or includes, the claimed limitations, it anticipates." *MEHK/Biophile Int'l corp. V. Miltraum*, 192 F.3d 1362, 1365, 52 USPQ2d 1303, 1305.

55. Thus, the instant application, as amended, is *prima facie* obvious to one of ordinary skill in the art at the time the invention was made since the combined teachings of the prior art suggest the instant application.

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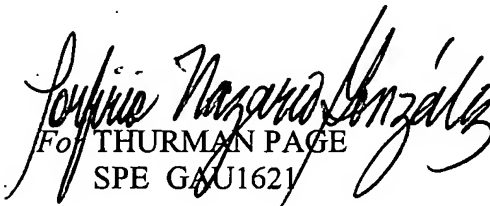
Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MLouisa Lao, Ph.D. whose telephone number is 571-272-9930. The examiner can normally be reached on 8:30am to 5:30pm Mondays to Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman Page can be reached on 571-272-0602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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MLouisa Lao, Ph.D.
Examiner
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